MIAMI-DADE COUNTY, FLORIDA METRO-DADE FLAGLER BUILDING

140 WEST FLAGLER STREET, SUITE 1603 MIAMI, FLORIDA 33130-1563 (305) 375-2901 FAX (305) 375-2908

www.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Town & Country Industries, Inc. 400 West McNab Road Ft. Lauderdale, Florida 33309

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Division (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: 0.050" (min.) Aluminum Storm Panels Shutter

APPROVAL DOCUMENT: Drawing No. 05-353, titled "0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Thornton-Tomasetti Group, dated June 29, 2005, last revision #0 dated June 29, 2005 signed and sealed by V.J. Knezevich, P.E. bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact

LABELING: Each panel shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 03-0421.13 & consists of this page 1, evidence submitted pages E-1 and E-2 as well as approval document mentioned above.

or/16/2006

The submitted documentation was reviewed by Helmy A. Makar, P.E.

NOA No 05-0713.03 Expiration Date: 11/16/2010 Approval Date: 02/16/2006

Page 1

Town & Country Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #00-0809.03

A. DRAWINGS:

1. Drawing Number 00-159, titled "0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Knezevich & Associates, dated August 1, 2000, last revision #1 dated October 26, 2000, signed and sealed by V. J. Knezevich, P.E.

B. TESTS:

1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test on 0.050" aluminum storm panels, prepared by Construction Testing Corporation, Test Report No. CTC 00-028 dated 06/28/2000, signed and sealed by Christopher G. Tyson, P.E.

C. CALCULATIONS:

- 1. Comparative Analysis and Anchor Analysis, dated 07/12/2000, pages 1 through 56, prepared by Knezevich & Associates, Inc., signed and sealed by V. J. Knezevich, P.E.
- 2. Comparative Analysis, dated 10/26/2000, pages 1 through 3, prepared by Knezevich & Associates, Inc., signed by V. J. Knezevich, P.E.

D. MATERIAL CERTIFICATION:

- 1. Mill Certified Inspection Report of coils, for Aluminum Alloy 3004-H34 by Jupiter Aluminum Corp. with physical properties.
- 2. Certified Tensile Test Report by Certified Testing Laboratories, Report No. CTL-592F dated 06/26/2000, for Aluminum Alloy, signed and sealed by Ramsh Patel, P.E.

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 03-0421.13

A. DRAWINGS

1. Drawing No. 03-259, titled "0.050" Aluminum Storm Panel", sheets 1 through 6 of 6, prepared by Knezevich & Associates, Inc., dated April 04, 2003, last revision #1 dated September 23, 2003 signed and sealed by V.J. Knezevich, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

Helmy A. Makar, P. E. Product Control Examiner NOA No 05-0713.03

Expiration Date: 11/16/2010

Approval Date: 02/16/2006

Town & Country Industries, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

D. QUALITY ASSOURANCE

1. By Miami-Dade County Building Code Compliance Office.

E. MATERIAL CERTIFICATIONS

1. None.

3. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. 05-353, titled "0.050" Aluminum Storm Panel ", sheets 1 through 6 of 6, prepared by Thornton-Tomasetti Group, dated June 29, 2005, last revision #0 dated June 29, 2005 signed and sealed by V.J. Knezevich, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor Analysis, dated June 15, 2005, 39 pages, prepared by Thornton-Tomasetti Group, signed and sealed by V. J. Knezevich, P.E.

D. QUALITY ASSOURANCE

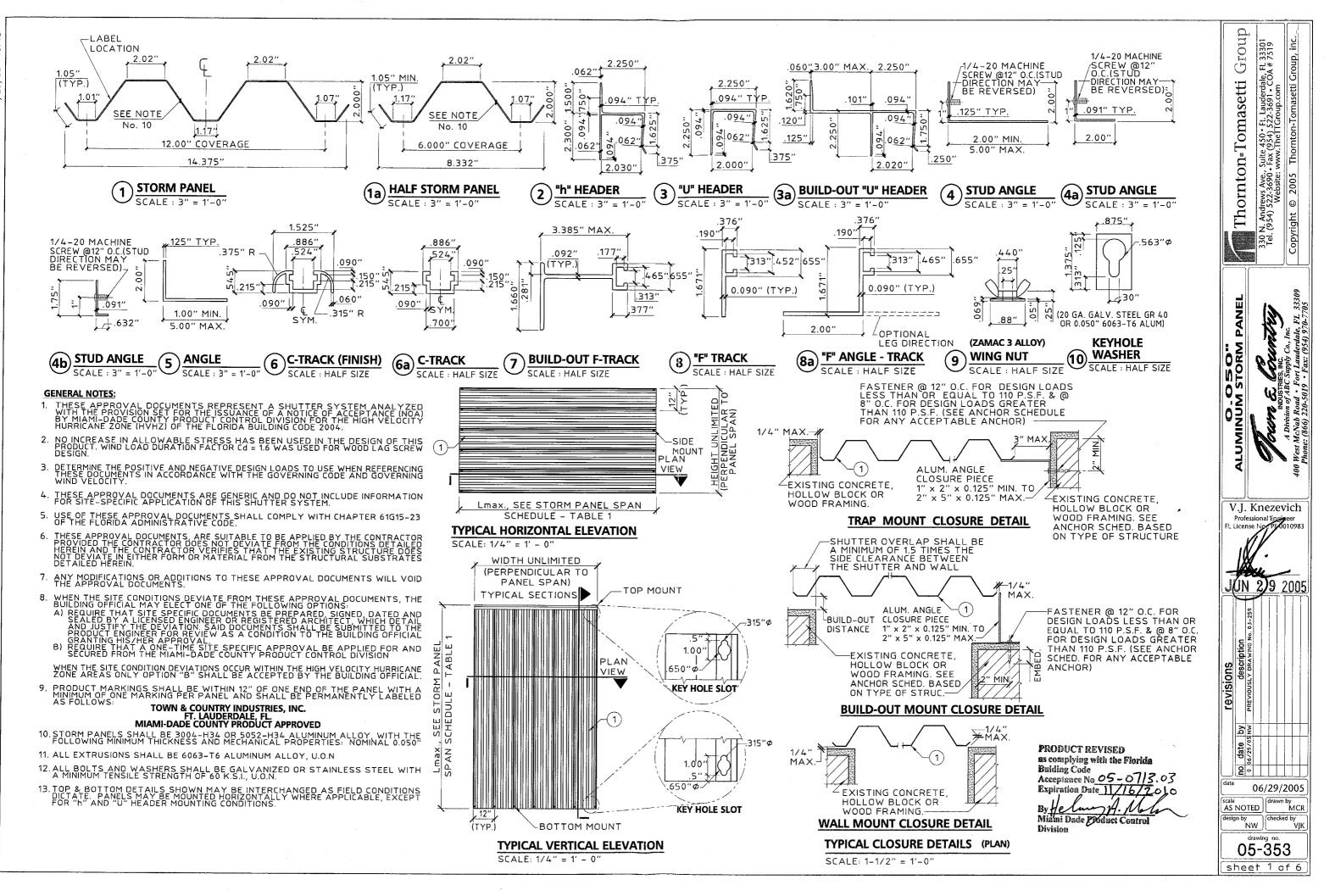
1. By Miami-Dade County Building Code Compliance Office.

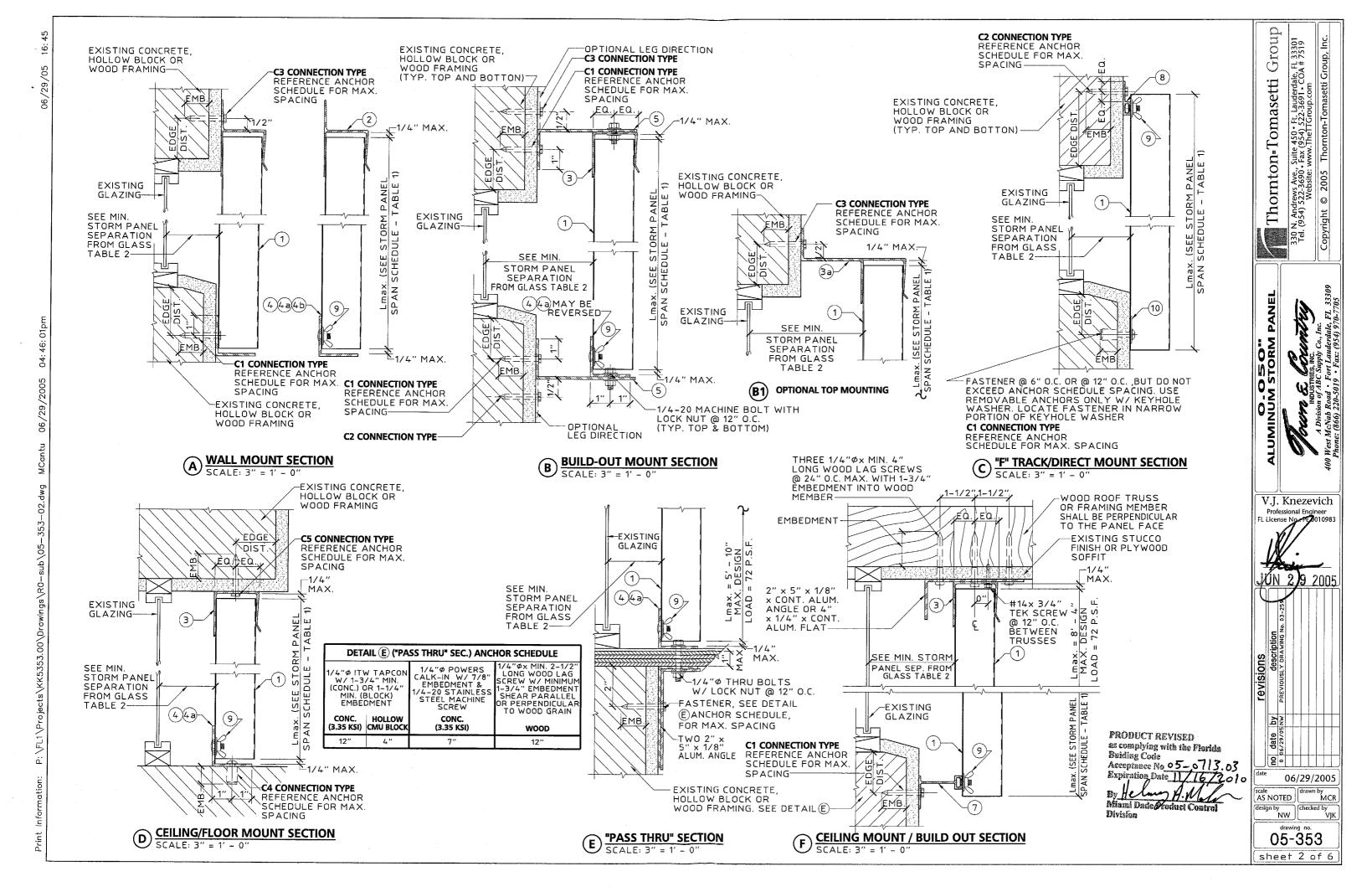
E. MATERIAL CERTIFICATIONS

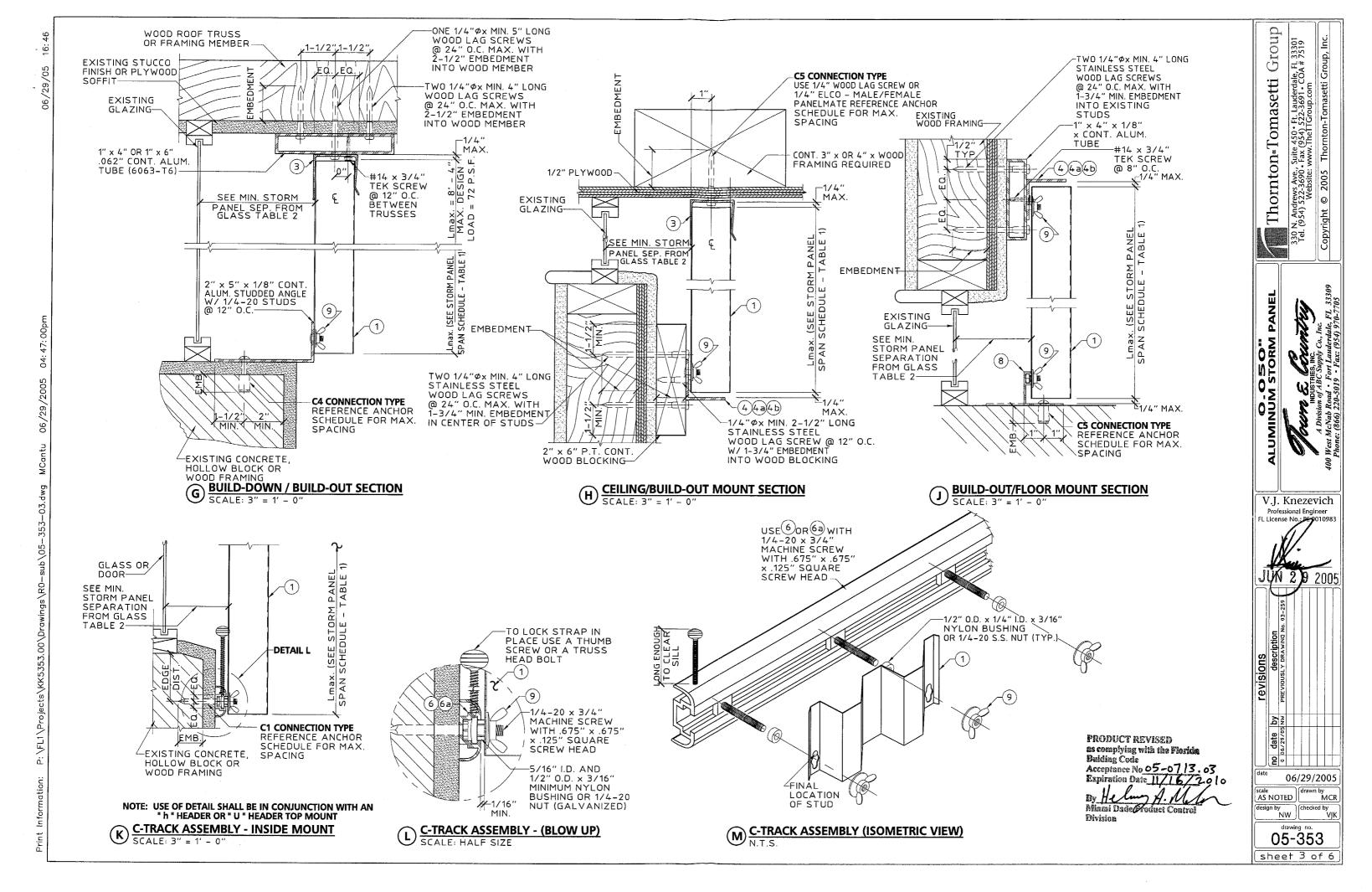
1. None.

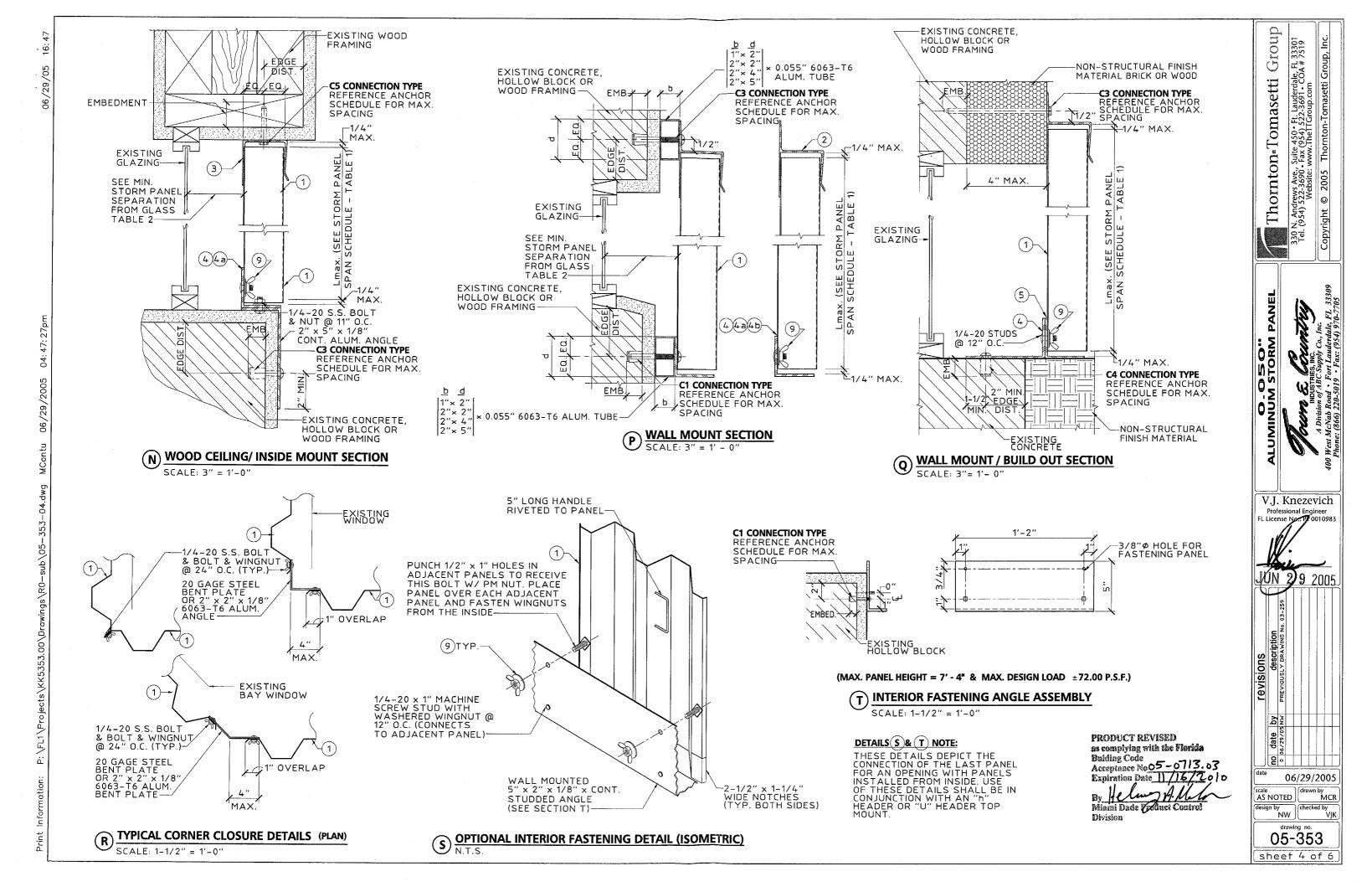
Helmy A. Makar, P. E. Product Control Examiner NOA No 05-0713.03

Expiration Date: 11/16/2010 Approval Date: 02/16/2006









Print

	ANCHOR SCHEDULE FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS																															
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	1/4"Ø ELCO TAPCON W/ 1-1/4" MIN. EMBEDMENT	84.0	8	8		5	4	5	5		3	7	5	3	//	3	\mathcal{H}	10	10	3	6	5	7	7	\mathcal{H}	4	3	6	4	\mathcal{H}	4	3
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ANCHOR SCHEDULE FASTENER MAXIMUM SPACING (INCHES) REQUIRED FOR VARIOUS DESIGN LOADS AND SPANS LOAD MIN. 3/4" EDGE DISTANCE STRUC. (W) SPANS UP TO SPANS UP TO SPANS UP TO P.S.F 12'-0" 8'-8' 6'-0' **ANCHOR TYPE** (SEE NOTE 1) (SEE NOTE 1) MAX (SEE NOTE 1) EXIST. (SEE CONNECTION TYPE CONNECTION TYPE CONNECTION TYPE NOTE (SEE NOTE 3) (SEE NOTE 3) (SEE NOTE 3) 1) C1 C2 C3 C4 C5 C1 C2 C3 C4 C5 C1 C2 C3 C4 C5 2" MIN. 43.0 14 14 14 13 12 14 14 14 9 8 14 14 9 6 6 50.0 14 14 14 11 10 14 14 14 8 7 14 14 7 5 5 72.0 14 14 14 8 7 14 14 6 5 5 14 14 4 4 3 1/4"Ø x MIN. 3" LONG LAG SCREW W/ MIN. 2" EMBED. SHEAR PARALLEL OR PERP. TO WOOD GRAIN 14 14 9 7 6 14 14 5 4 4 14 14 84.0 4 4 3 150.0 14 14 4 4 3 14 14 4 4 3 14 14 4 4 3 13 | 13 | 43.0 14 14 14 WOOD 50.0 14 14 14 11 11 4 72.0 | 11 | 11 | 4 | 7 7 7 7/16" Ø WOOD BUSHING W/ 5/8" MIN. EMBED. & I/4–20 STAINLESS STEEL MACHINE SCREW 9 9 3 84.0 6 6 5 4 5 4 // 150.0 14 14 14 14 11 14 14 11 9 8 14 14 4 7 5 43.0 50.0 14 14 14 12 10 14 14 7 8 7 13 | 13 | 3 | 6 | 5 1/4"0 ELCO MALE/ FEMALE "PANELMATE" W/ 1-7/8" MIN. EMBED. & 1/4-20 MACHINE SCREW WITH NUT 14 14 7 8 7 12 12 3 5 4 72.0 84.0 14 14 5 7 6 10 10 5 4 9 7 4 3

ANCHOR NOTES:

1. SPANS AND LOADS SHOWN HERE ARE FOR DETERMINING ANCHOR SPACING ONLY. ALLOWABLE STORM PANEL SPANS FOR SPECIFIC LOADS MUST BE LIMITED TO THOSE

150.0 9 7 4 3

9 7 / 4 3

9 7 / 4 3

- 2. ENTER ANCHOR SCHEDULE BASED ON THE EXISTING STRUCTURE MATERIAL, ANCHOR TYPE AND EDGE DISTANCE. SELECT DESIGN LOAD GREATER THAN OR EQUAL TO NEGATIVE DESIGN LOAD ON SHUTTER AND SELECT SPAN GREATER THAN OR EQUAL TO SHUTTER SPAN.
- 3. SEE MOUNTING SECTION DETAILS FOR IDENTIFICATION OF CONNECTION TYPE.
- EXISTING STRUCTURE MAY BE CONCRETE, HOLLOW BLOCK OR WOOD FRAMING. REFERENCE ANCHOR SCHEDULE FOR PROPER ANCHOR TYPE BASED ON TYPE OF EXISTING STRUCTURE.
- ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES WALL FINISH OR STUCCO.
- WHERE EXISTING STRUCTURE IS WOOD FRAMING, WOOD FRAMING CONDITIONS VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT PLYWOOD. FASTENING TO PLYWOOD IS ACCEPTABLE ONLY FOR SIDE CLOSURE PIECES.
- WHERE LAG SCREWS FASTEN TO NARROW FACE OF STUD FRAMING, FASTENER SHALL BE LOCATED IN CENTER OF NOMINAL 2" x 4" (MIN.) WOOD STUD. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR WOOD FRAMING. WOOD STUD SHALL BE "SOUTHERN PINE" G=0.55 OR GREATER DENSITY. LAG SCREWS SHALL HAVE PHILLIPS PAN HEAD OR HEX HEAD.
- MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD (SIDEWALK BOLT), U.O.N.
- DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE USES. 10.
- * DESIGNATES ANCHORS WHICH ARE REMOVABLE BY REMOVING MACHINE SCREW, NUT OR WASHERED WINGNUT.

PRODUCT REVISED as complying with the Florida Buiding Code Acceptance No 05-0713.03 Expiration Date 11/16/2010

Miami Dade Product Control Division

Groug Lauderdale, FL 33301 2-3691 • COA # 7519 oup.com Thornton Tomasetti e 450 • Ft. L (954) 522-7. The TT Grou N. Andrews / (954) 522-3 Web 38 Fel.

PANEI O.OSO" UMINUM STORM (R) 00

V.J. Knezevich

FL License No.: DE 00109	FL License No.: 050010983														
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06/29/20	05														

AS NOTED

NW

05-353

sheet 5 of 6

MCR

Т	MINIMUM STORM PANEL SEPARATION FROM GLASS												
A	D D G I T I V I I		COLUMN 1	COLUMN 2									
B L E	POSITIVE DESIGN LOAD (W) (P.S.F.)	ACTUAL SPAN (L) (FT – IN)	MIN. SEP. FOR ALL INSTALLATIONS LESS THAN 30' ABOVE GRADE (INCHES)	MIN. SEP. FOR ALL INSTALLATIONS GREATE THAN 30' ABOVE GRAD (INCHES)									
2	40.0	8-8	3	2-1/4									
	40.0	10-6	5	3-3/8									
	50.0	8-8	3	2-1/2									
	50.0	9-10	5	3-1/4									
	60.0	8-8	3	2-3/4									
	00.0	9-5	5	3-1/4									
		4-0	3	1–1/2									
	70.0	8-8	3	3									
		9-0	5	3-1/4									
	80.0	4-0	3	1-1/2									
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		7-9	3	2-3/4									
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		6-9	3	2-3/8									
.]	120.0	3-0	3	1-1/2									
-	120.0	6-4	3	2-1/4									

TABLE 1 NOTES:

- DETERMINE BOTH THE POSITIVE AND THE NEGATIVE WIND LOADS. CHECK THEIR RESPECTIVE SPANS AND USE THE LESSER VALUE OF THE TWO.
- FOR DESIGN LOADS BETWEEN TABULATED VALUES USE NEXT HIGHER LOAD OR LINEAR INTERPOLATION MAY BE USED TO DETERMINE ALLOWABLE SPANS.

TABLE 2 NOTE:

ENTER TABLE 2 WITH POSITIVE DESIGN LOAD TO DETERMINE MIN. STORM SHUTTER SEPARATION FROM GLASS.

MAX. ALLOWABLE STORM PANEL **SPAN SCHEDULE** E POSITIVE OR SPAN FOR NEGSPAN FOR POS NEGATIVE PRESSURE PRESSURE DESIGN LOAD (FT - IN) (FT - IN) (P.S.F.) 10'-4" 40.0 12'-0" 45.0 11'-3" 10'-1" 50.0 10'-8" 9'-9" 55.0 10'-2" 9'-6" 60.0 9'-9" 9'-3" 9'-1" 62.0 9'-7" 9'-4" 8'-11" 65.0 70.0 9'-0" 8'-7" 72.0 8'-4" 8'-11" 75.0 8'-8" 8'-0" 8'-3" 7'-6" 80.0 6'-8" 90.0 7'-4" 100.0 6'-7" 6'-0" 110.0 6'-0" 5'~5" 5'-6" 5'-0" 120.0 130.0 5'-1" 4'-7" 140.0 4'-8" 4'-3" 150.0 4'-4" 4'-0" 160.0 4'-1" 3'-9" 3'-6" 170.0 3'-10" 3'-4" 3'-8" 180.0 190.0 3'-5" 3'-1" 3'-3" 3'-0" 200.0 3'-1" 2'-10" 210.0

> PRODUCT REVISED as complying with the Florida

3'-0" 2'-8" 220.0 230.0 2'-10" 2'-7"

revisions
description
PREVIOUSLY DRAWING No. date by 06/29/2005 AS NOTED NW 05-353

sheet 6 of 6

Grond

Thornton «Tomasetti

PANEL

O.OSO" ALUMINUM STORM

B

V.J. Knezevich

2005

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By Telmon H. W.
Miami Dade Product Control

Division